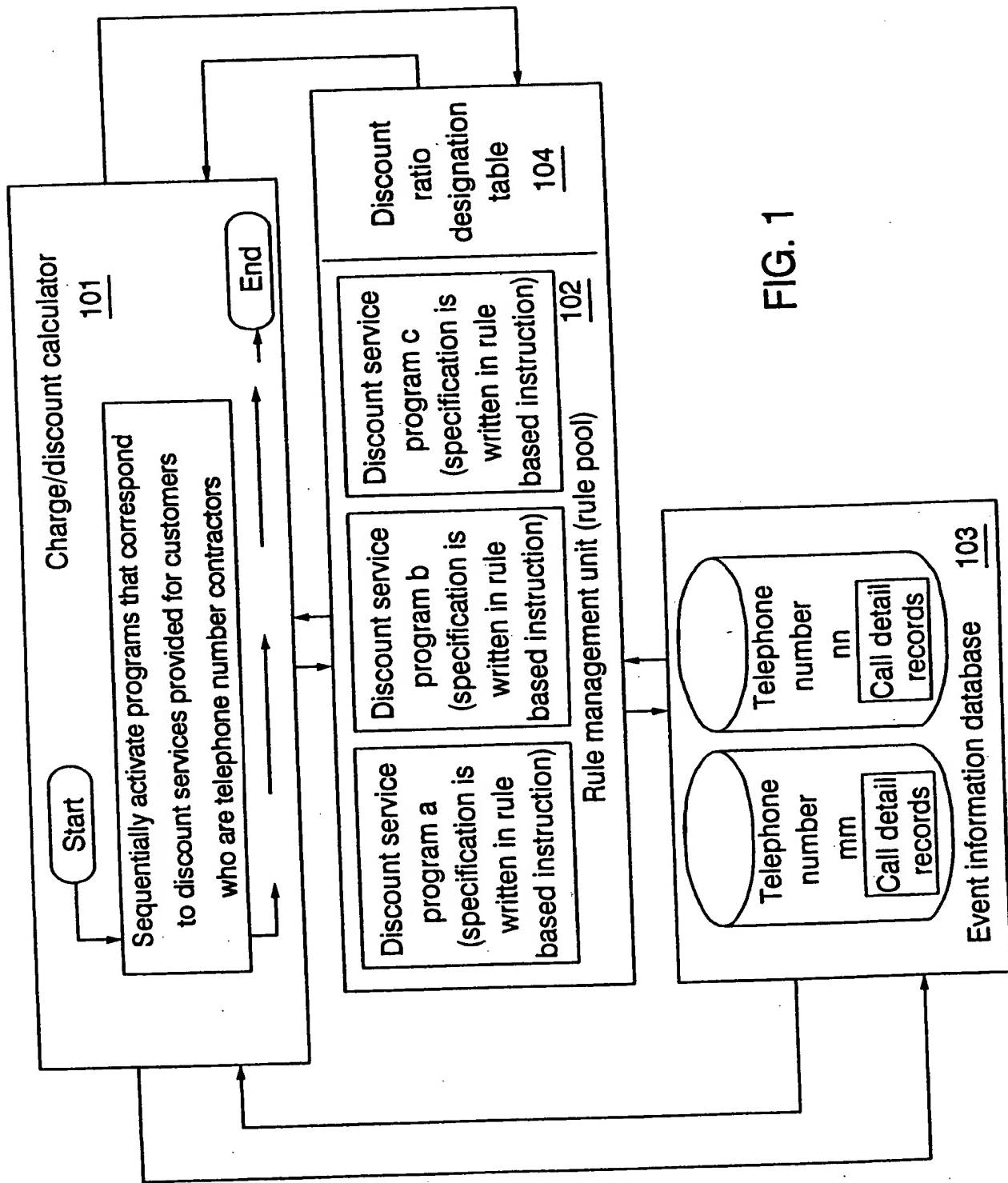


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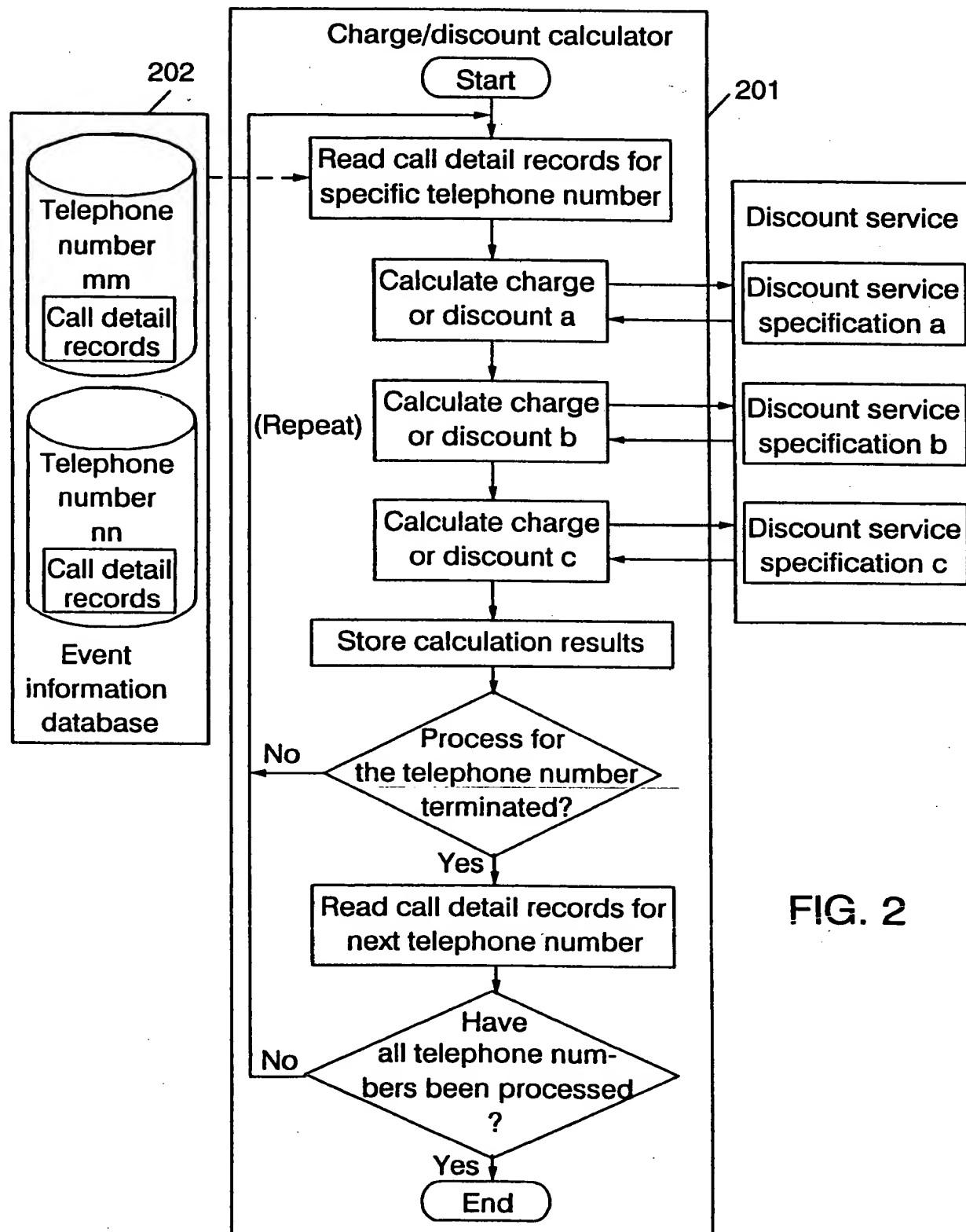
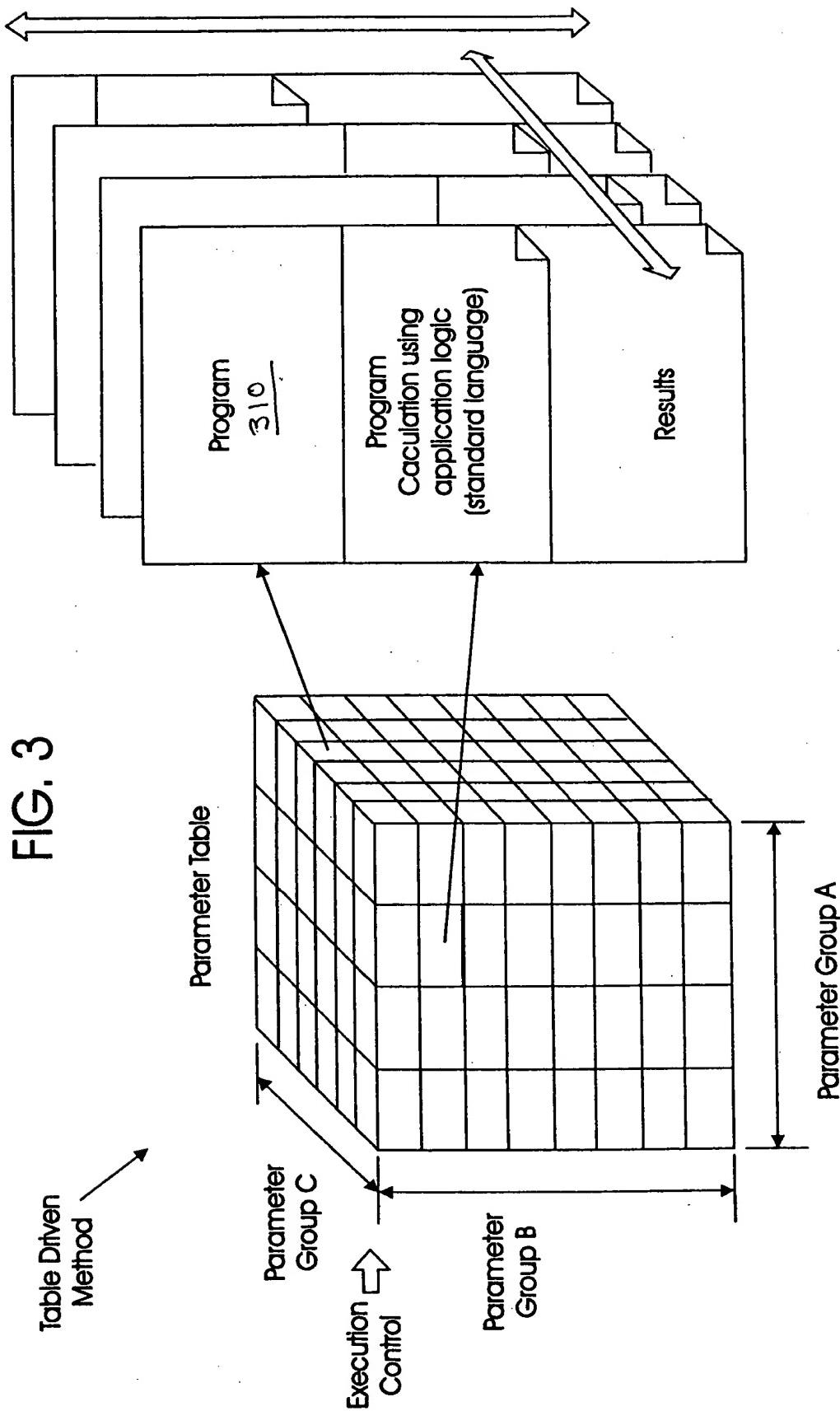
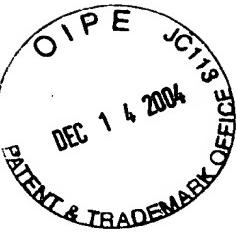


FIG. 2





Rule driven method

FIG. 4

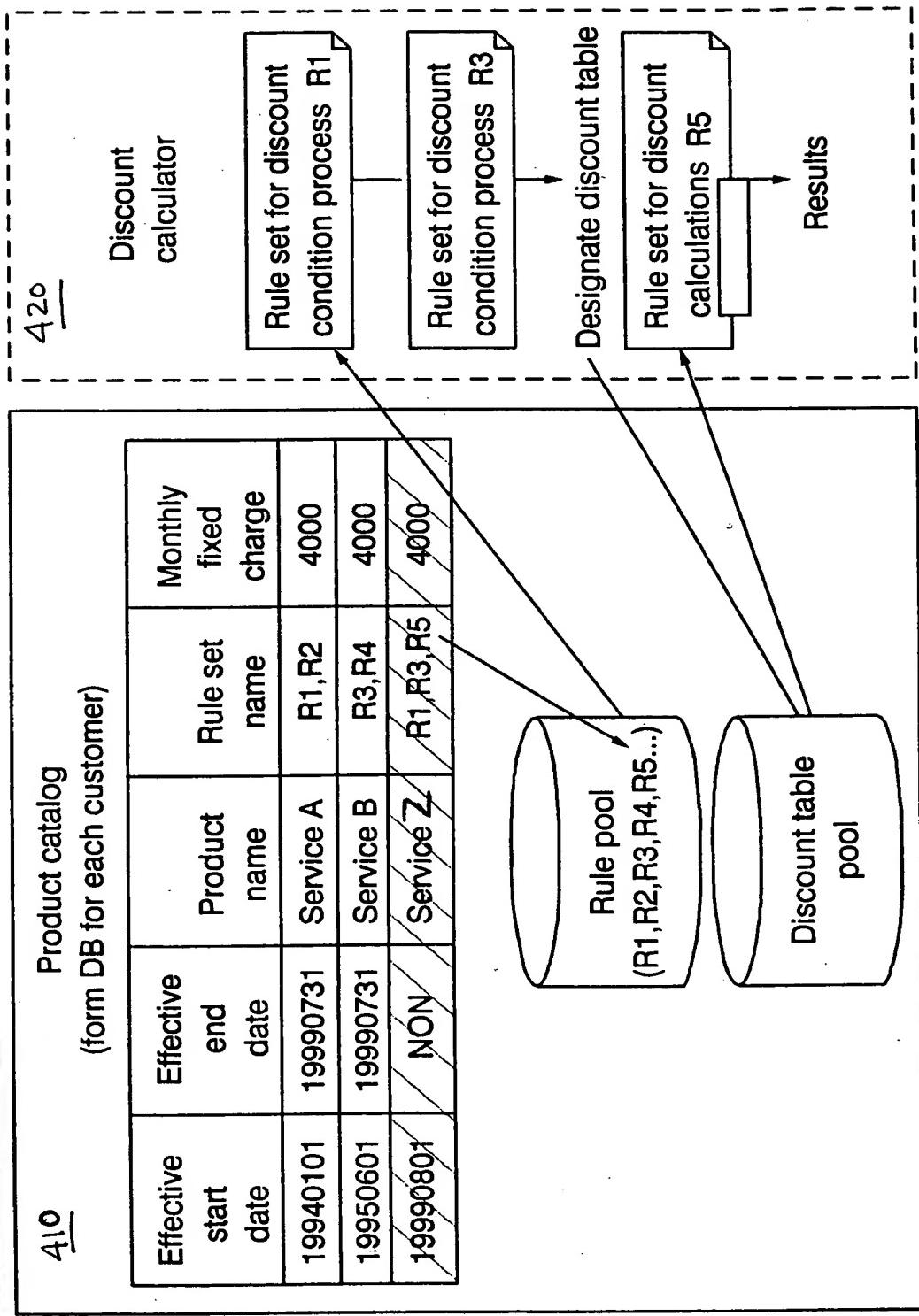




FIG. 5

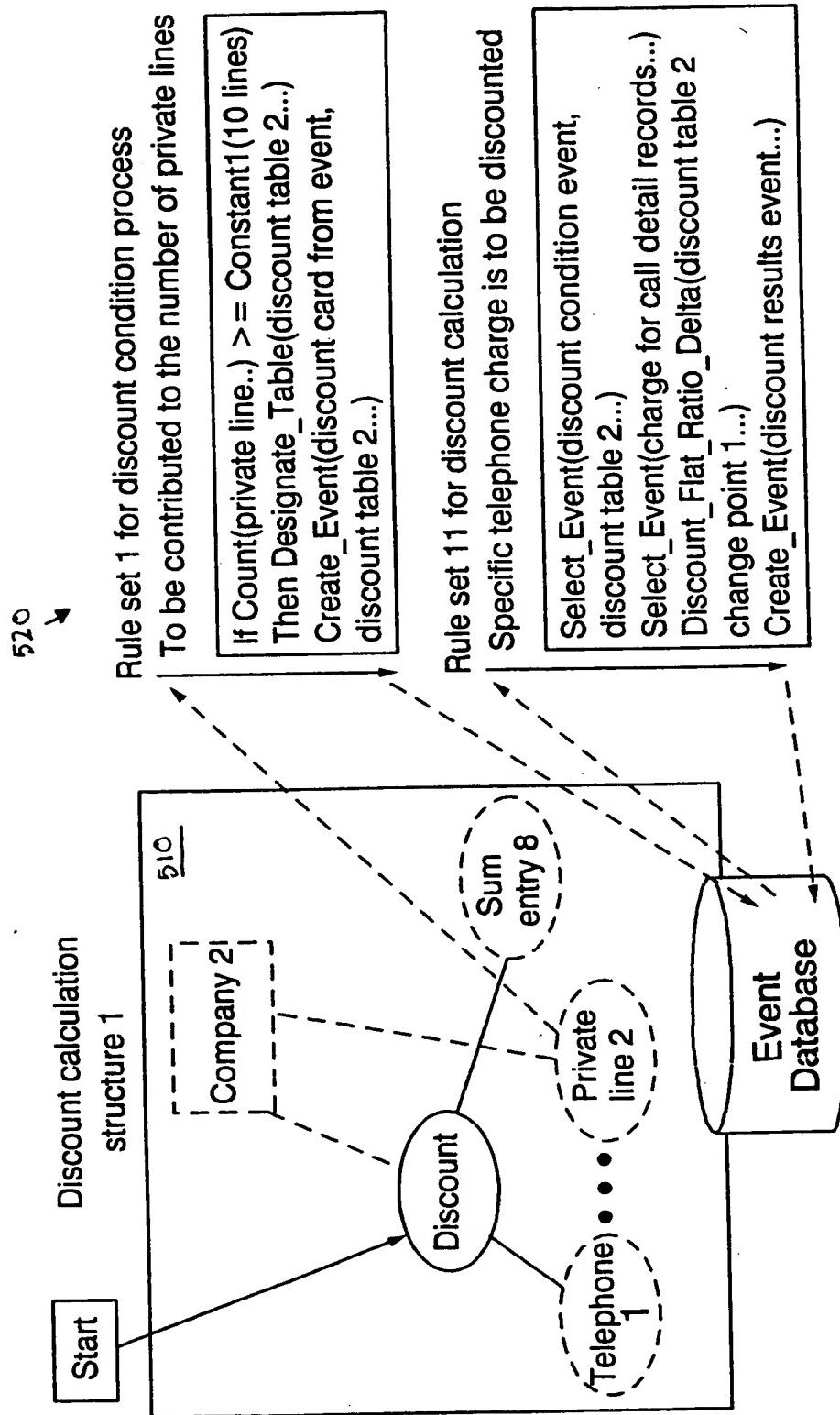
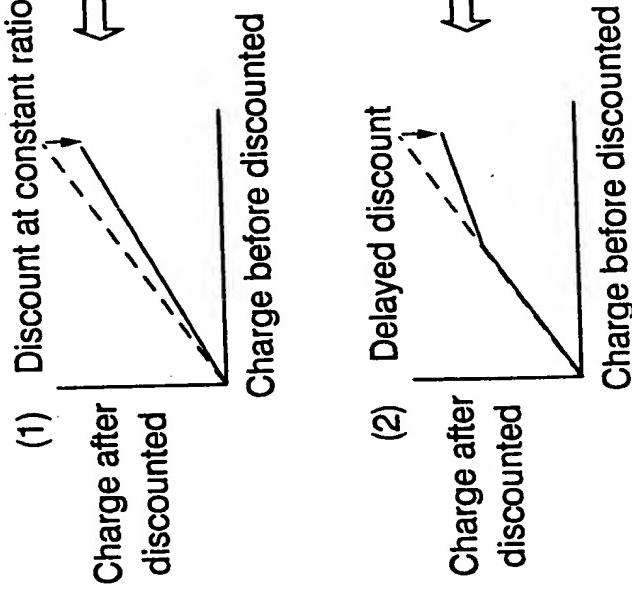




FIG. 6

FIG. 6A
FIG. 6B

FIG. 6A



Discount_Flat_Ratio_Delta(discount 1 change point 1)

610

Table ID	Change point	X: Price	Y: Discount ratio
Discount 1	1	1	10

Discount_Flat_Ratio_Delta(discount 2 change point 1)

Discount_Flat_Ratio_Delta(discount 2 change point 2)

Discount_Flat_Ratio_Delta(discount 2 change point 3)

610

Table ID	Change point	X: Price	Y: Discount ratio
Discount 2	1	1	0
Discount 2	2	5001	5
Discount 2	3	10001	10

Discount_Flat_Ratio_Delta(discount 3 change point 1)

Discount_Flat_Ratio_Accumulate(discount 3 change point 2)

620

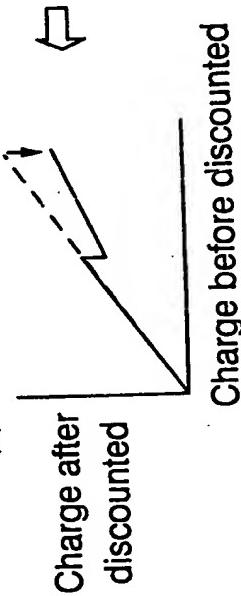
Table ID	Change point	X: Price	Y: Discount ratio
Discount 3	1	1	0
Discount 3	2	5001	10

Discount_Flat_Ratio_Delta(discount 3 change point 1)

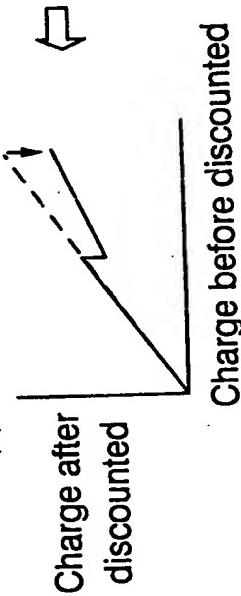
Discount_Flat_Ratio_Accumulate(discount 3 change point 2)

620

Table ID	Change point	X: Price	Y: Discount ratio
Discount 3	1	1	0
Discount 3	2	5001	10

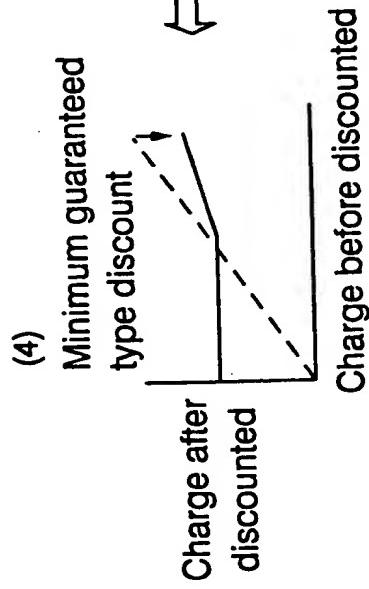


Step-by-step discount



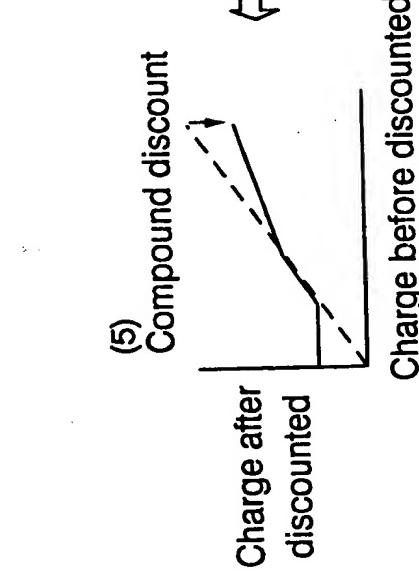
630

FIG. 6B



Add_Constant
Discount_Flat_Ratio_Delta(discount 4 change point 1)
Discount_Flat_Ratio_Delta(discount 4 change point 2)

Table ID	Change point	X: Price	Y: Discount ratio
Discount 4	1	1	100
Discount 4	2	5001	15



Add_Constant
Discount_Flat_Ratio_Delta(discount 5 change point 1)
Discount_Flat_Ratio_Delta(discount 5 change point 2)
Discount_Flat_Ratio_Delta(discount 5 change point 3)

Table ID	Change point	X: Price	Y: Discount ratio
Discount 5	1	1	100
Discount 5	2	3001	0
Discount 5	3	10001	10

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